

KIC 006511799

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
006511799-01	OBS	No	1.494295	132.824725	15.8	11.794	8.7	5.5	1.99	6658	0.80	9230.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006511799-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

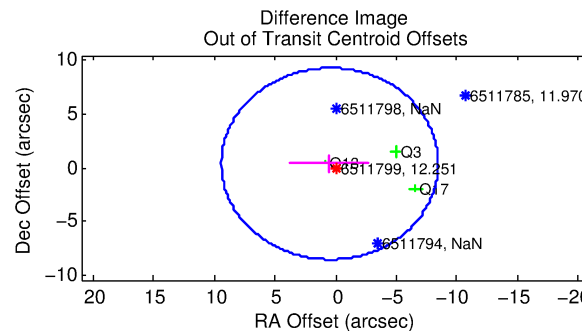
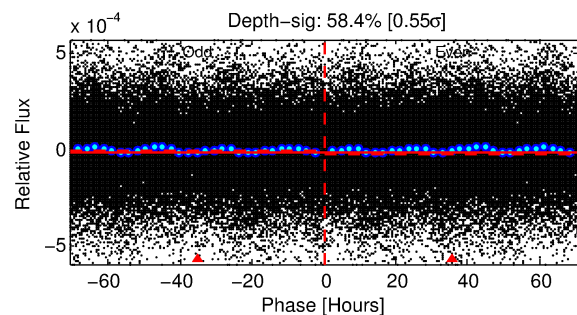
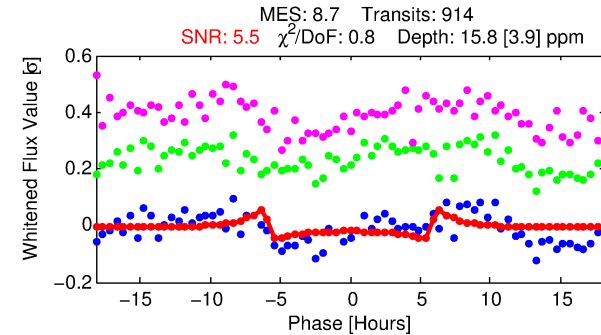
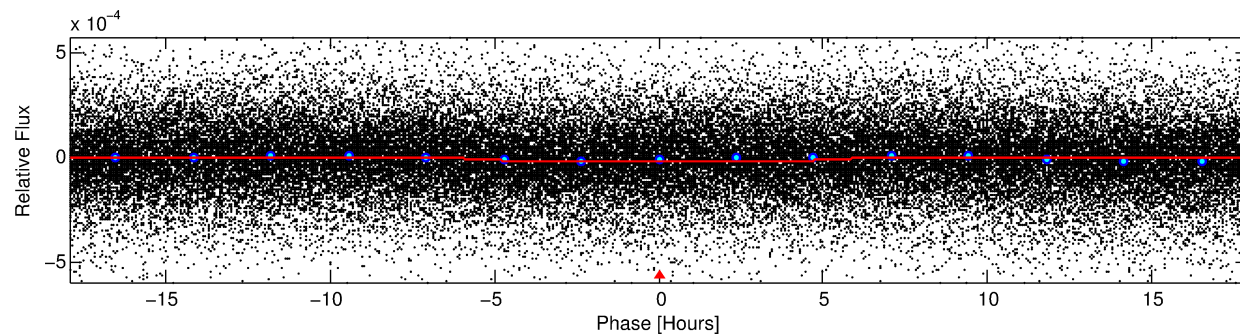
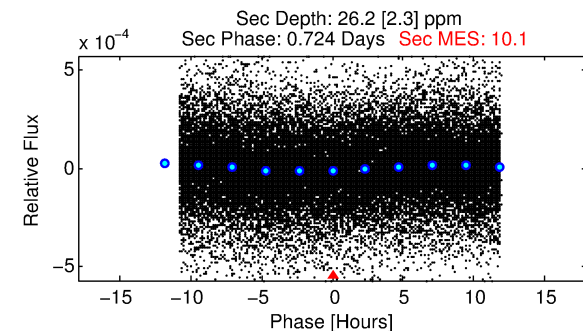
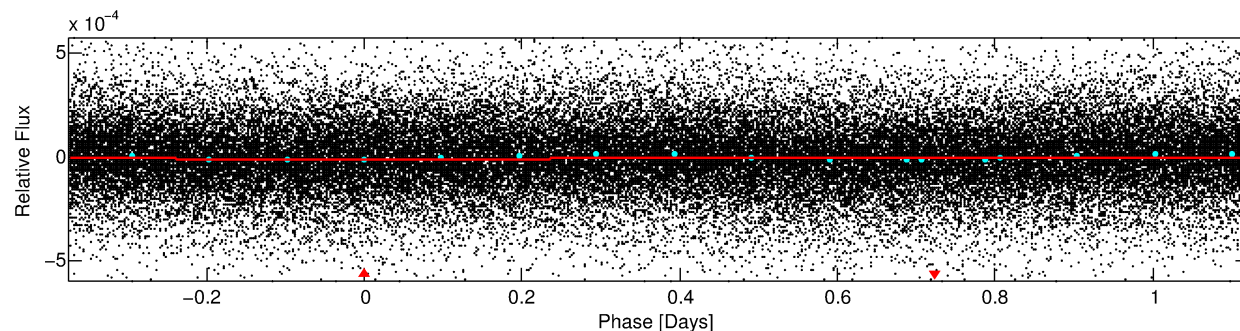
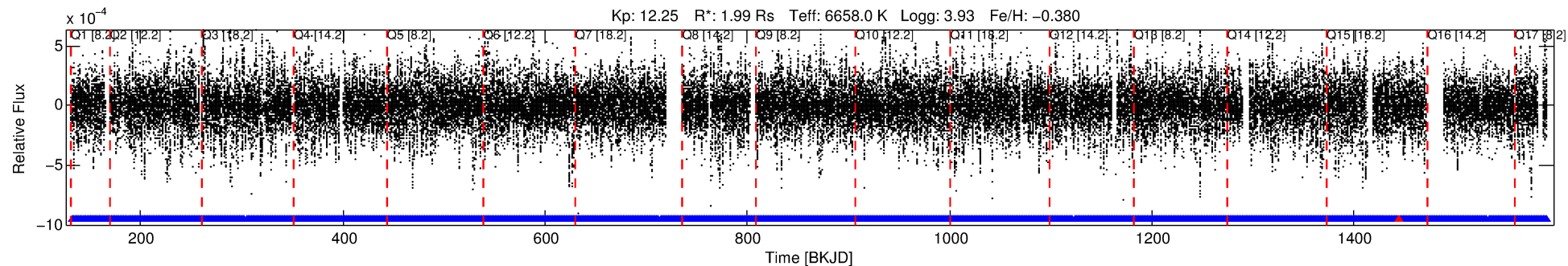
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006511799-01

No Significant Match Found

DV One-Page Summary

KIC: 6511799 Candidate: 1 of 1 Period: 1.494 d



DV Fit Results:

Period = 1.49429 [0.00002] d
Epoch = 132.8247 [0.0048] BKJD
Rp/R* = 0.0037 [0.0027]
a/R* = 1.16 [1.25]
b = 0.24 [16.40]
Seff = 9230.26 [4434.31]
Teq = 2499 [300] K
Rp = 0.80 [0.64] Re
a = 0.0275 [0.0080] AU
Ag = 17.01 [26.32] [0.61σ]
Teffp = 7848 [2905] K [1.83σ]

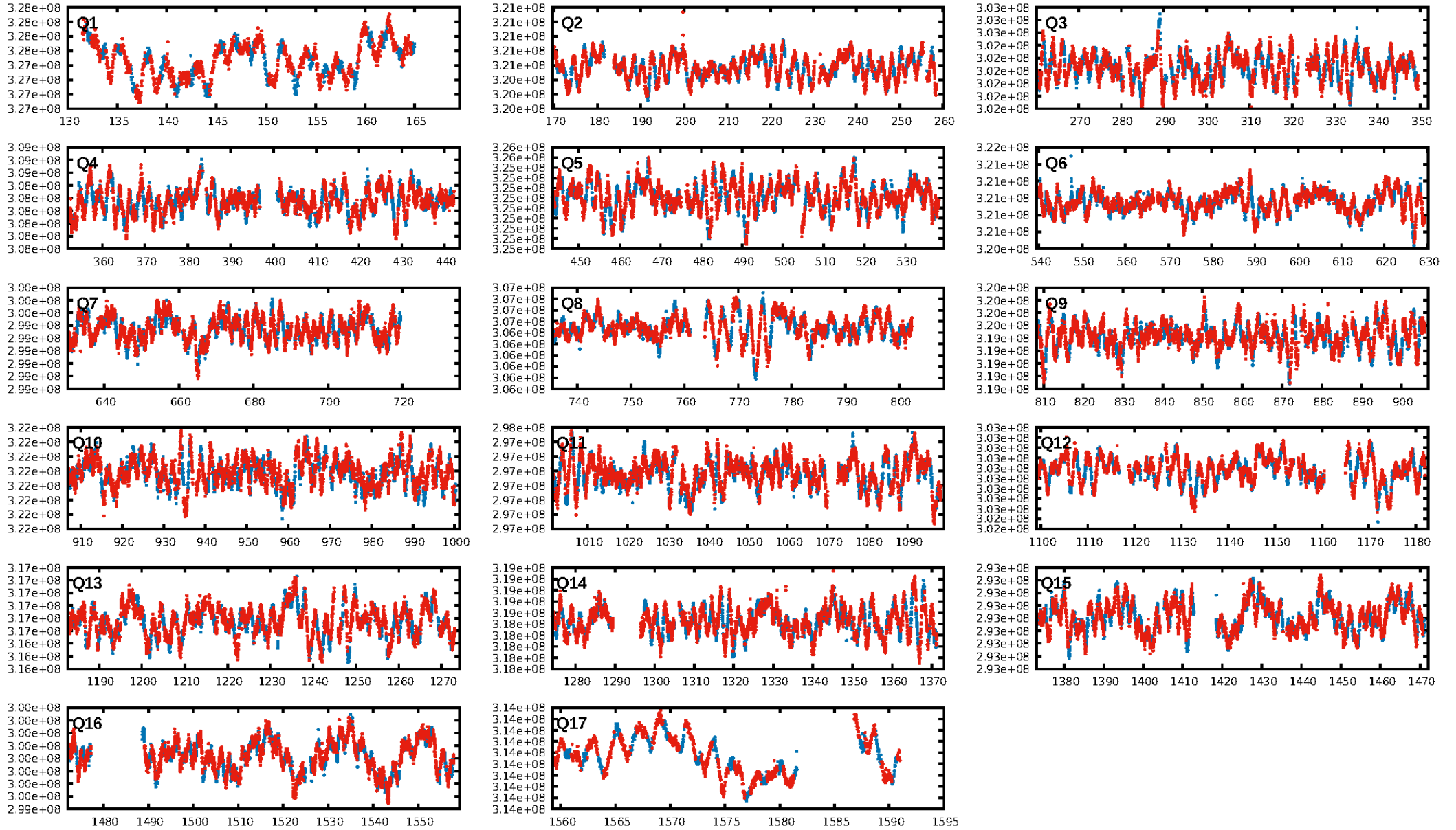
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [871/872]
GhostDiagnostic-chr: 0.7062
Centroid-sig: 0.0%
Centroid-so: 1.151 arcsec [1.43σ]
OotOffset-rm: 0.604 arcsec [0.20σ]
KicOffset-rm: 0.225 arcsec [0.26σ]
OotOffset-st: 0/1/0/2 [3]
KicOffset-st: 0/1/0/2 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [17/17]

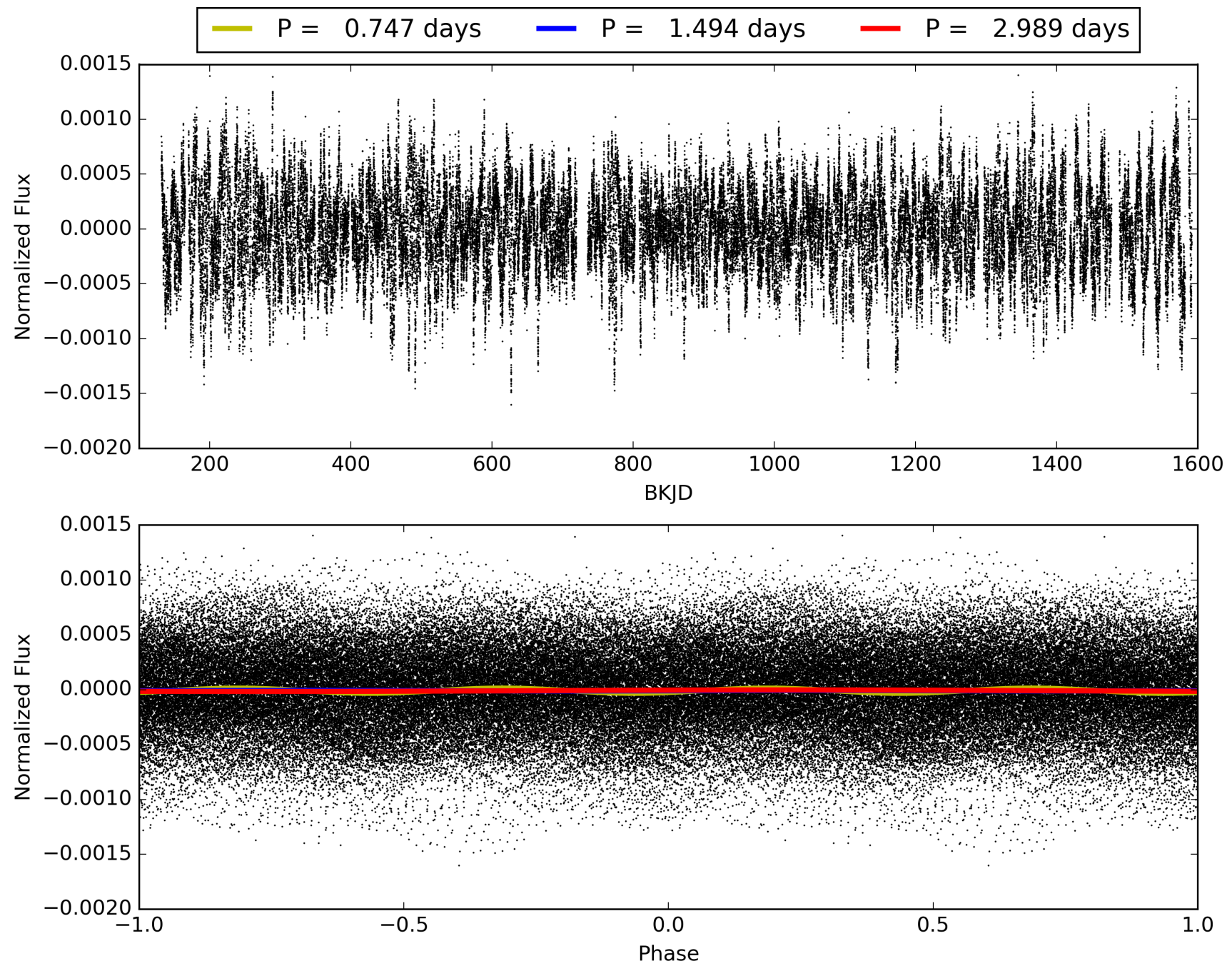
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:50:14 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006511799-01, PDC Light Curves

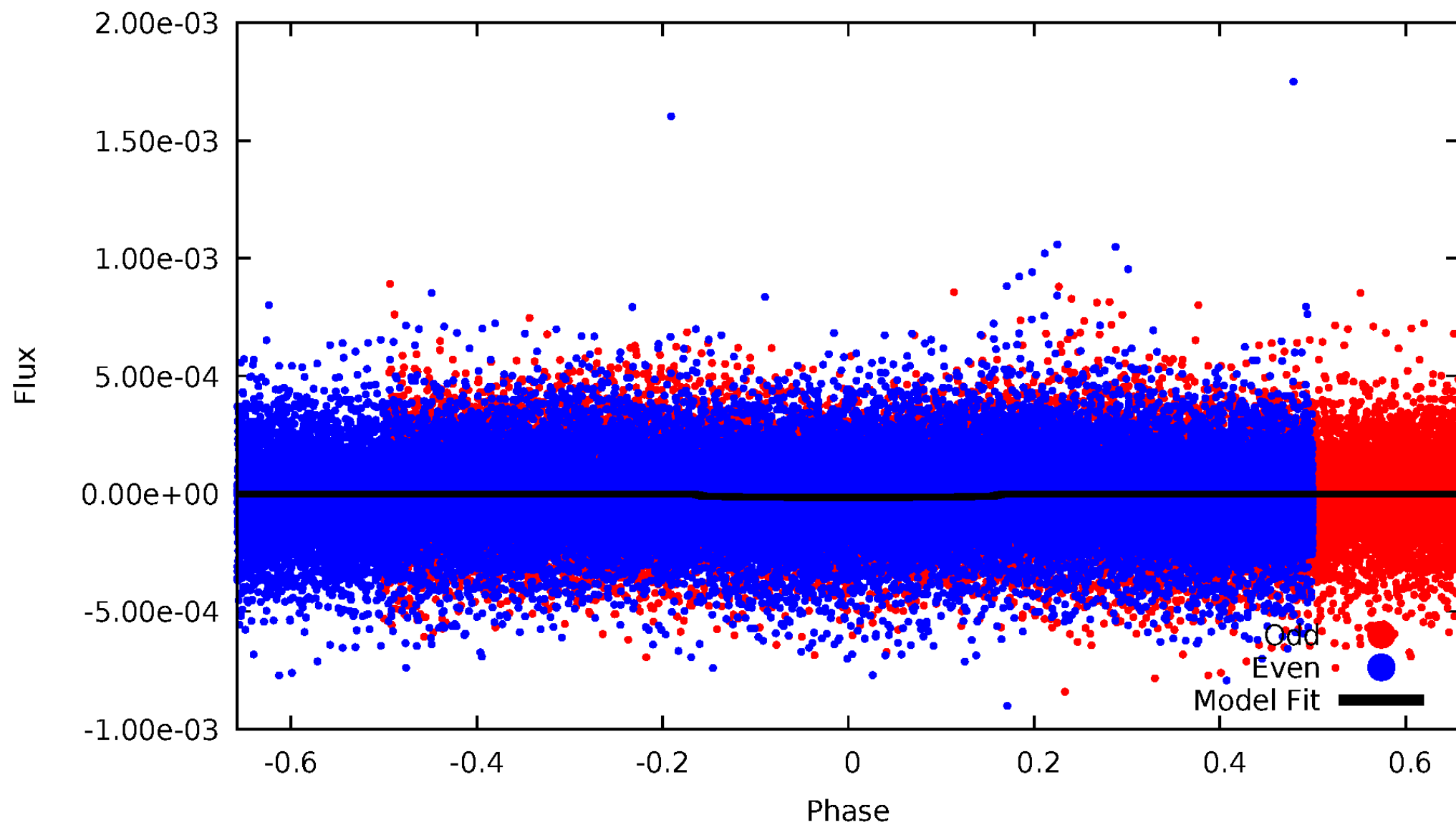


TCE 006511799-01



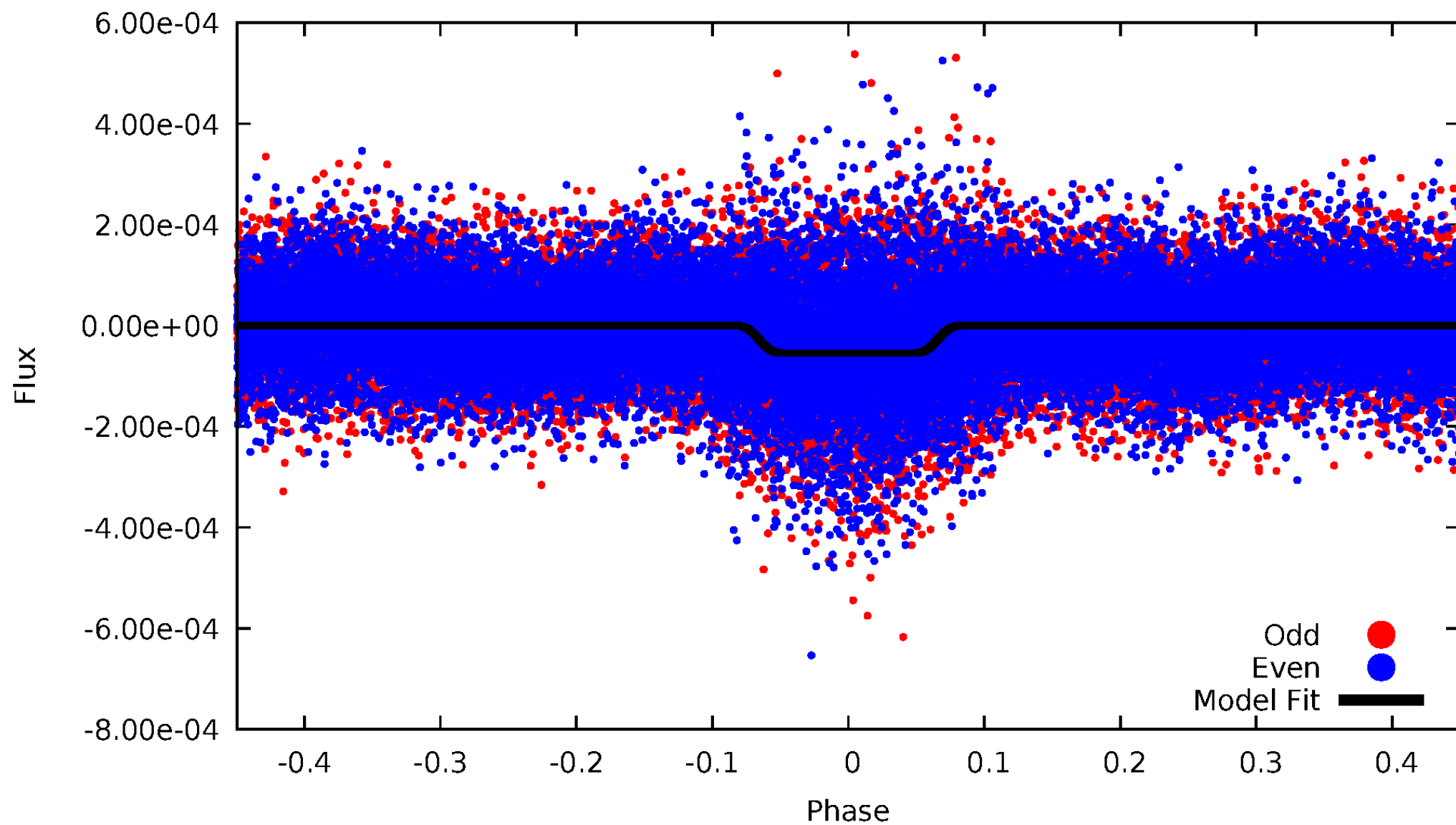
DV Odd/Even

TCE 006511799-01



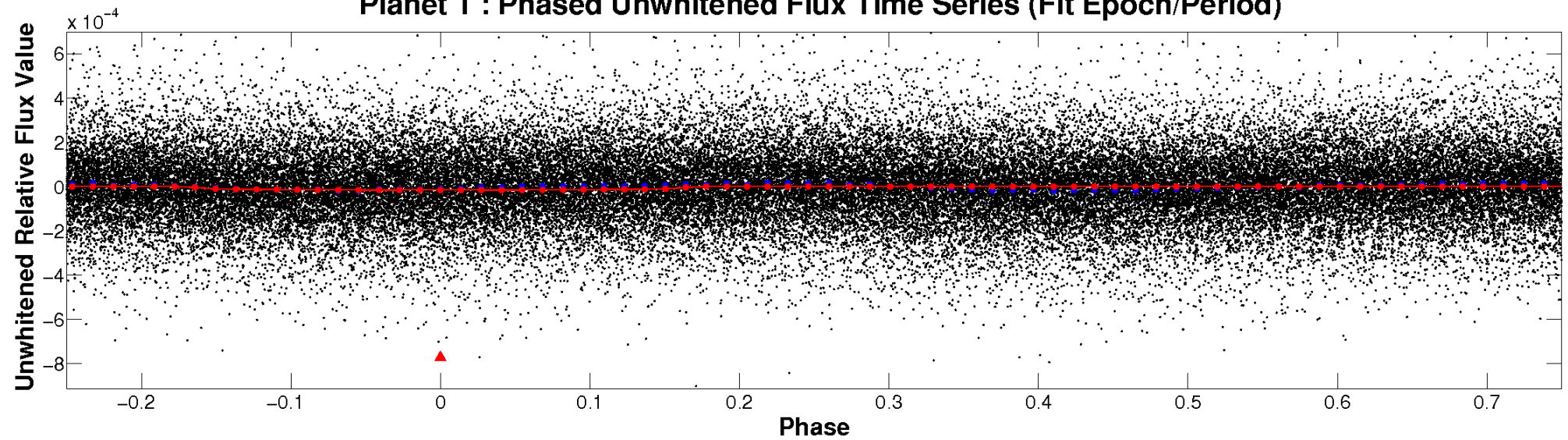
ALT Odd/Even

TCE 006511799-01

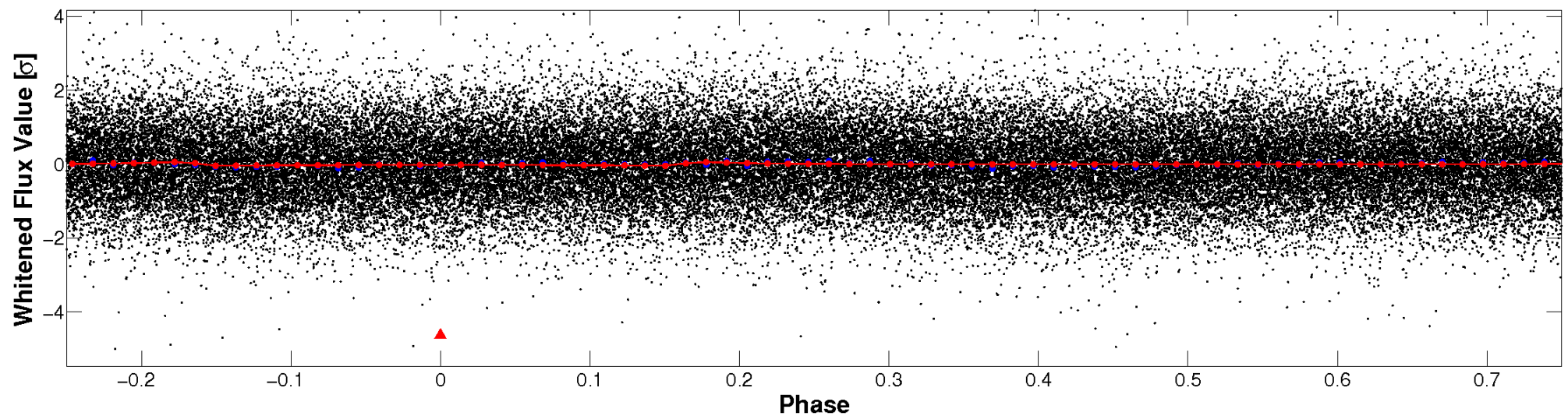


Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

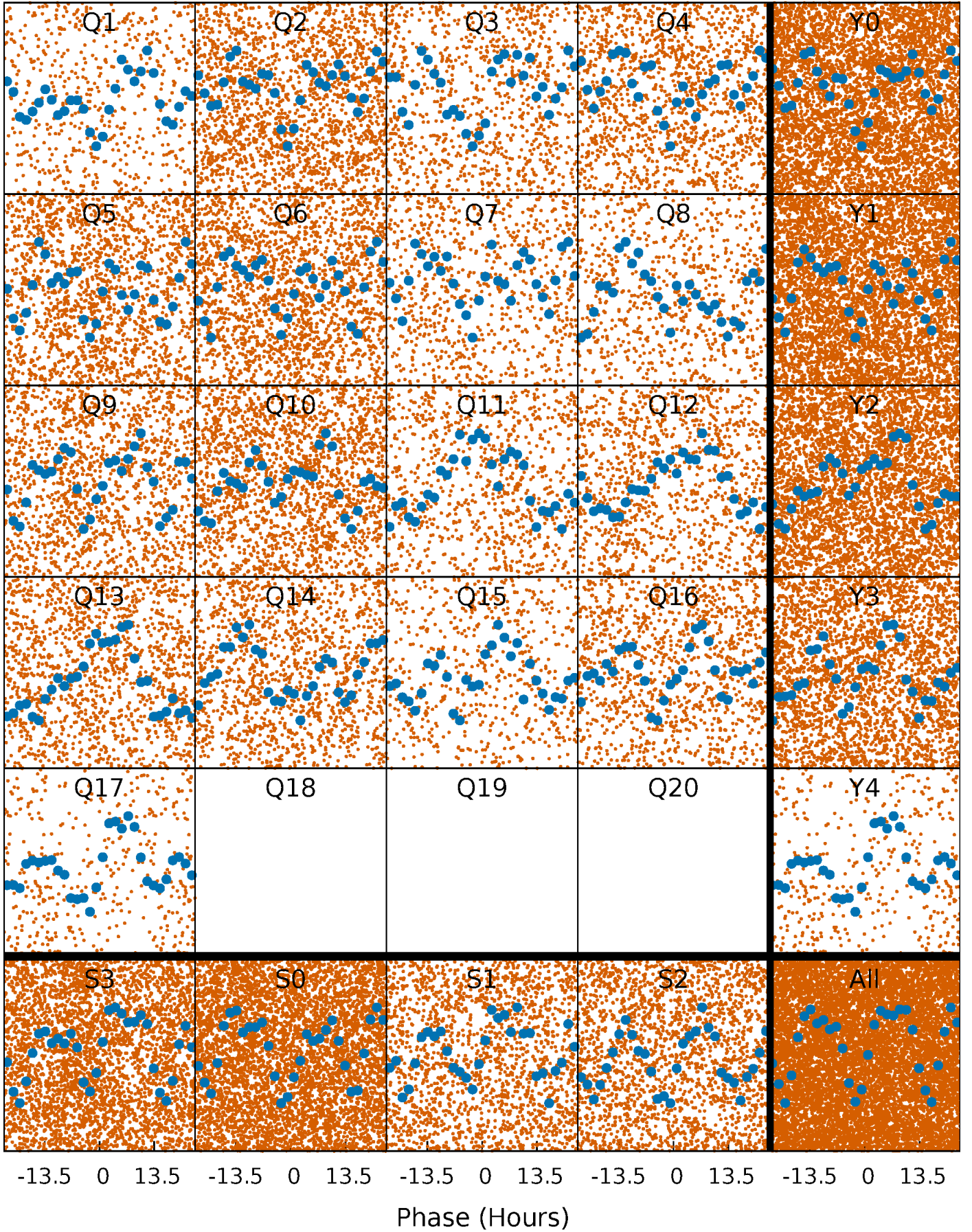


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



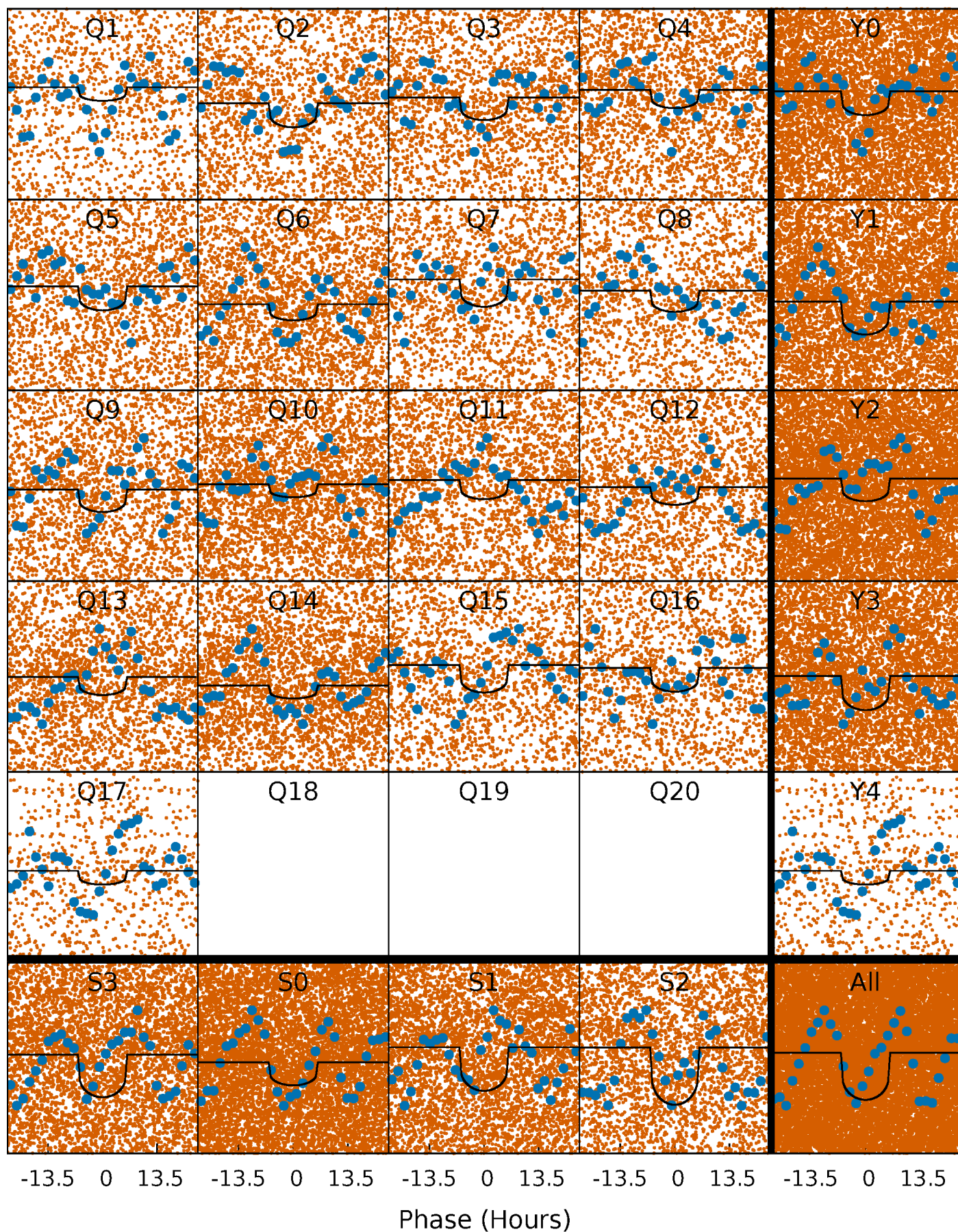
PDC Quarter-Phased Transit Curves

TCE 006511799-01 P= 1.494295 Days $T_0=132.824725$ (BKJD)



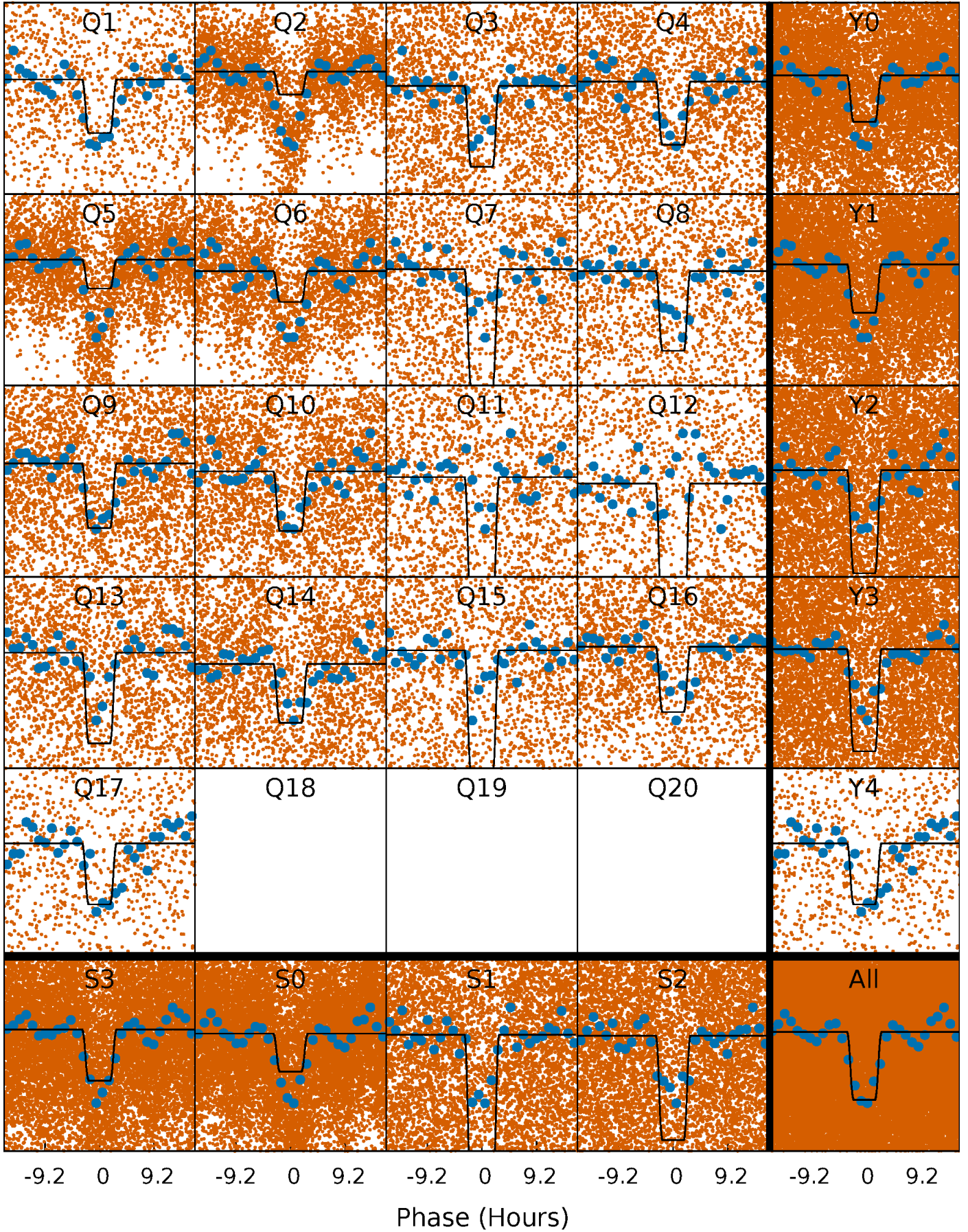
DV Quarter-Phased Transit Curves

TCE 006511799-01 P= 1.494295 Days $T_0=132.824725$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

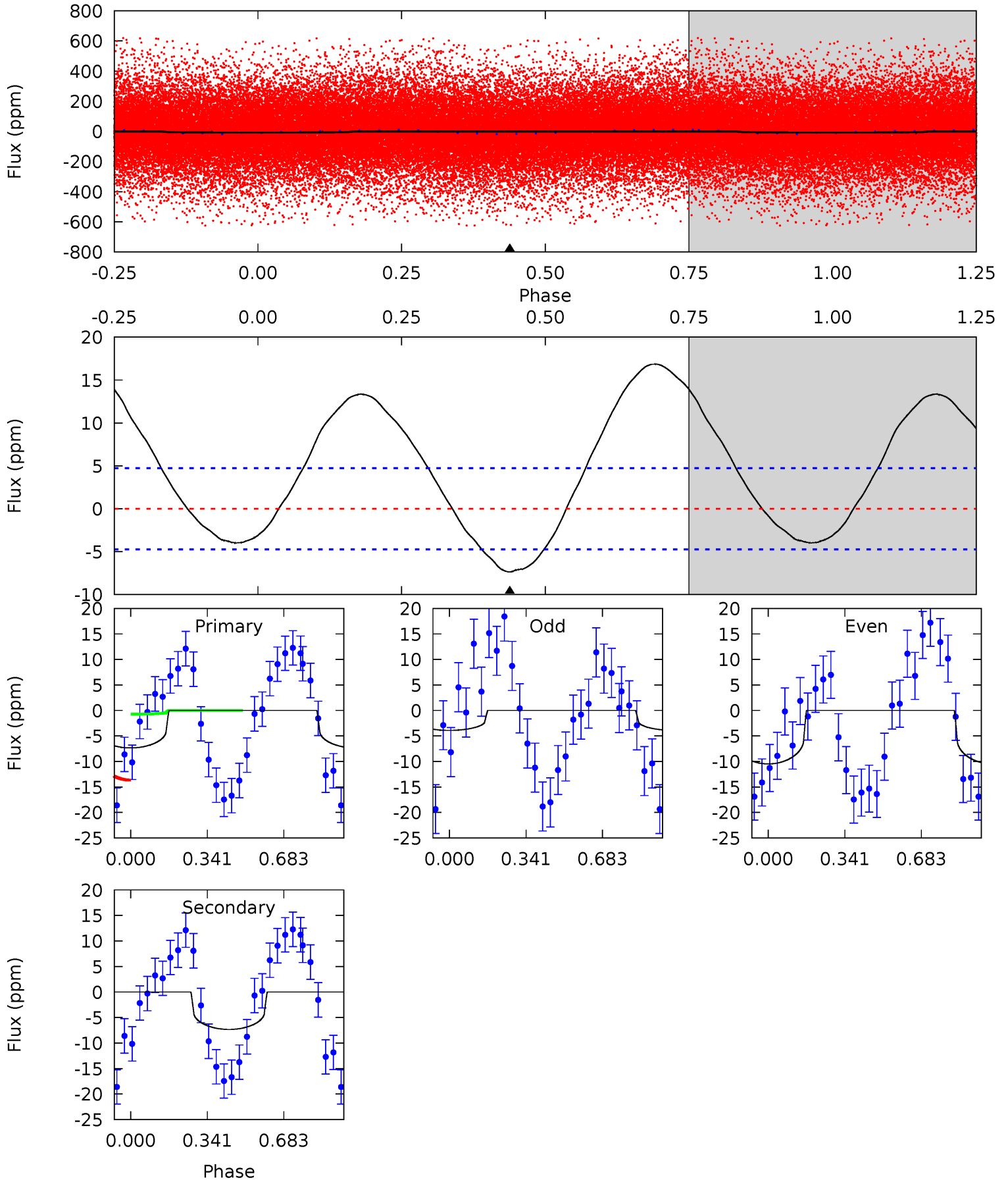
TCE 006511799-01 P= 1.494024 Days $T_0=132.817454$ (BKJD)



DV Model-Shift Uniqueness Test

006511799-01, P = 1.494295 Days, E = 131.330430 Days

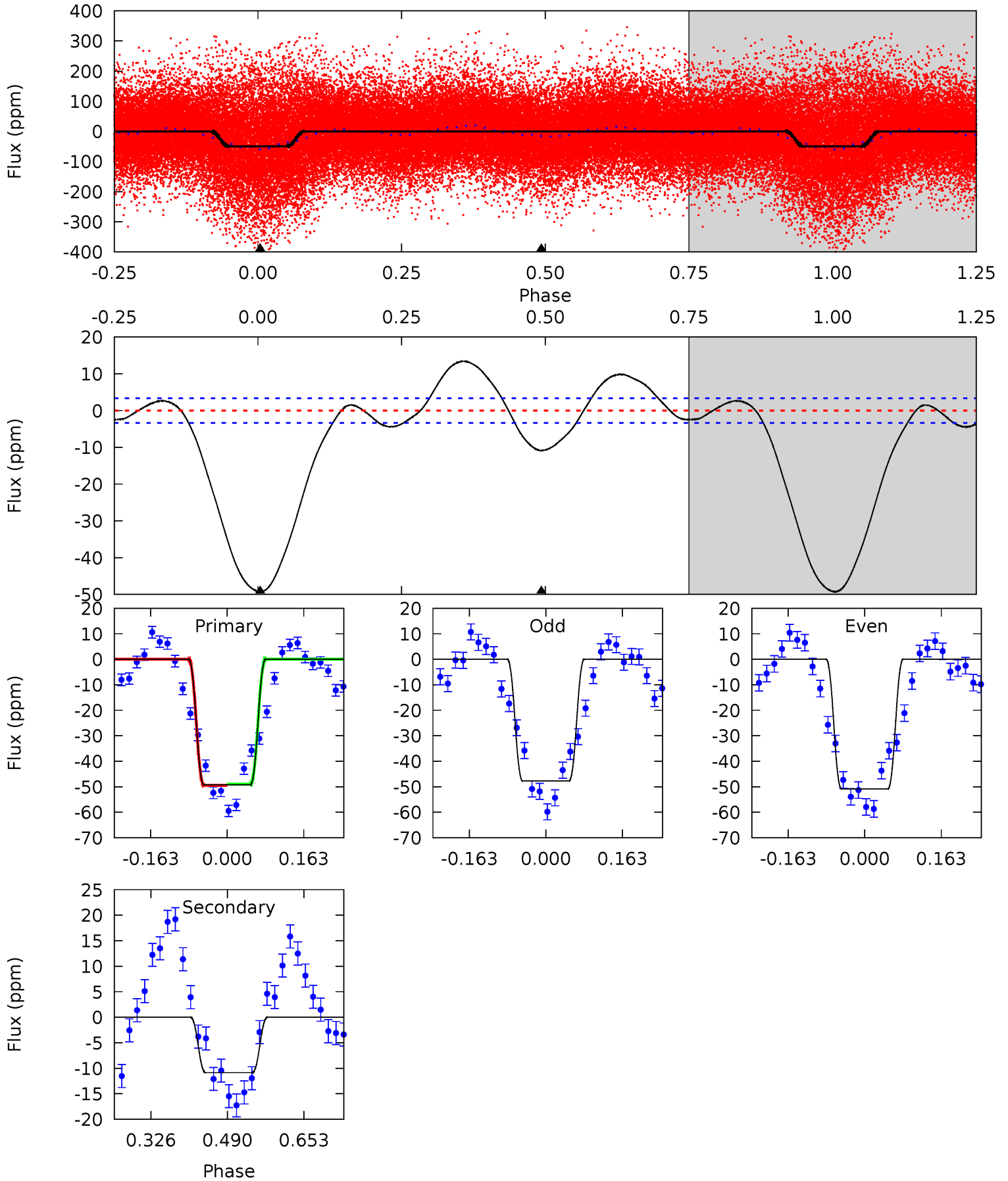
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.66	6.66	0	0	4.30	0.95	3.83	6.66	6.66	6.66	6.66	2.98	2.27	0.70	5.87



Alt Model-Shift Uniqueness Test

006511799-01, P = 1.494024 Days, E = 131.323430 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
65.5	14.4	0	0	4.46	1.39	5.01	65.5	65.5	14.4	14.4	2.08	1.04	0.21	0.29



Stellar Parameters For KIC 006511799

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6658^{+161}_{-201}	$3.934^{+0.273}_{-0.117}$	$-0.380^{+0.300}_{-0.250}$	$1.992^{+0.401}_{-0.602}$	$1.244^{+0.193}_{-0.193}$	$0.222^{+0.398}_{-0.080}$
	+2%/-3%	+7%/-3%	+79%/-66%	+20%/-30%	+16%/-16%	+180%/-36%
Source	PHO1	FLK73	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006511799-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-7 ± 1	$0.83^{+0.59}_{-0.50}$	3431^{+222}_{-264}	5354^{+3741}_{-1112}	$4.570^{+22.584}_{-3.055}$
Alt.	-11 ± 1	$1.52^{+0.66}_{-0.61}$	3432^{+230}_{-276}	4455^{+1165}_{-636}	$1.958^{+3.448}_{-0.978}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

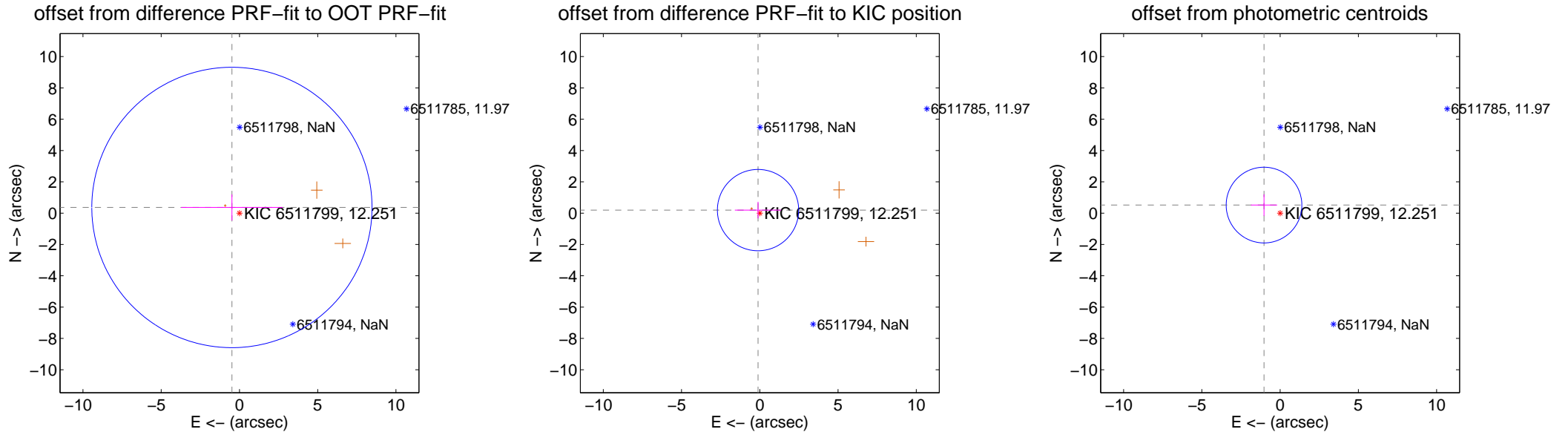
DV Centroid Data

Supplemental centroid analysis for 006511799-01. Kepler magnitude: 12.25. Transit SNR 5.49

There are 0 quarters with good PRF difference image offsets

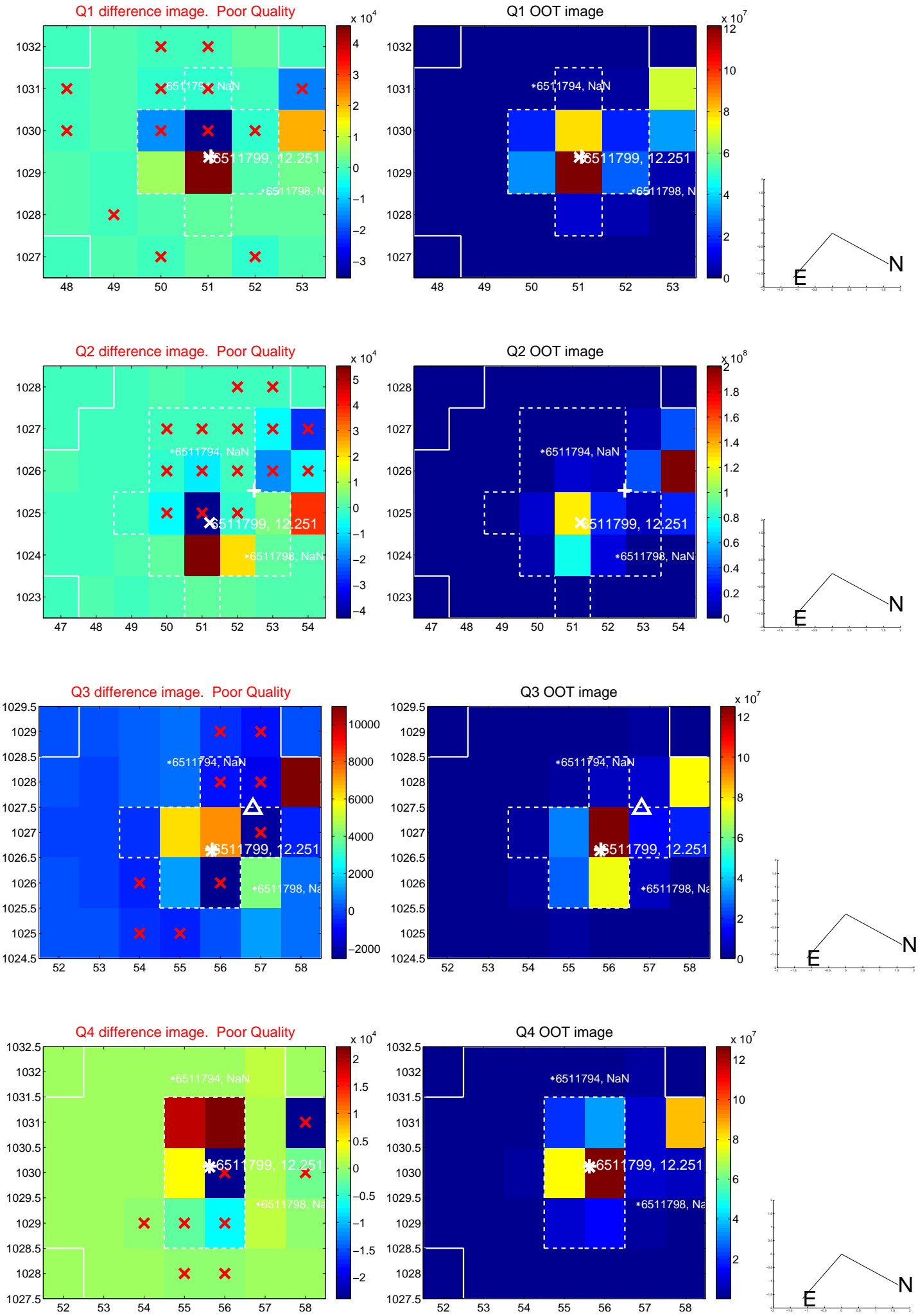
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.604 ± 2.984	0.20	0.482 ± 3.240	0.364 ± 0.831
PRF-fit source offset from KIC position	0.225 ± 0.866	0.26	0.112 ± 1.478	0.195 ± 0.531
photometric centroid source offset	1.15 ± 0.81	1.43	1.03 ± 0.83	0.52 ± 0.68

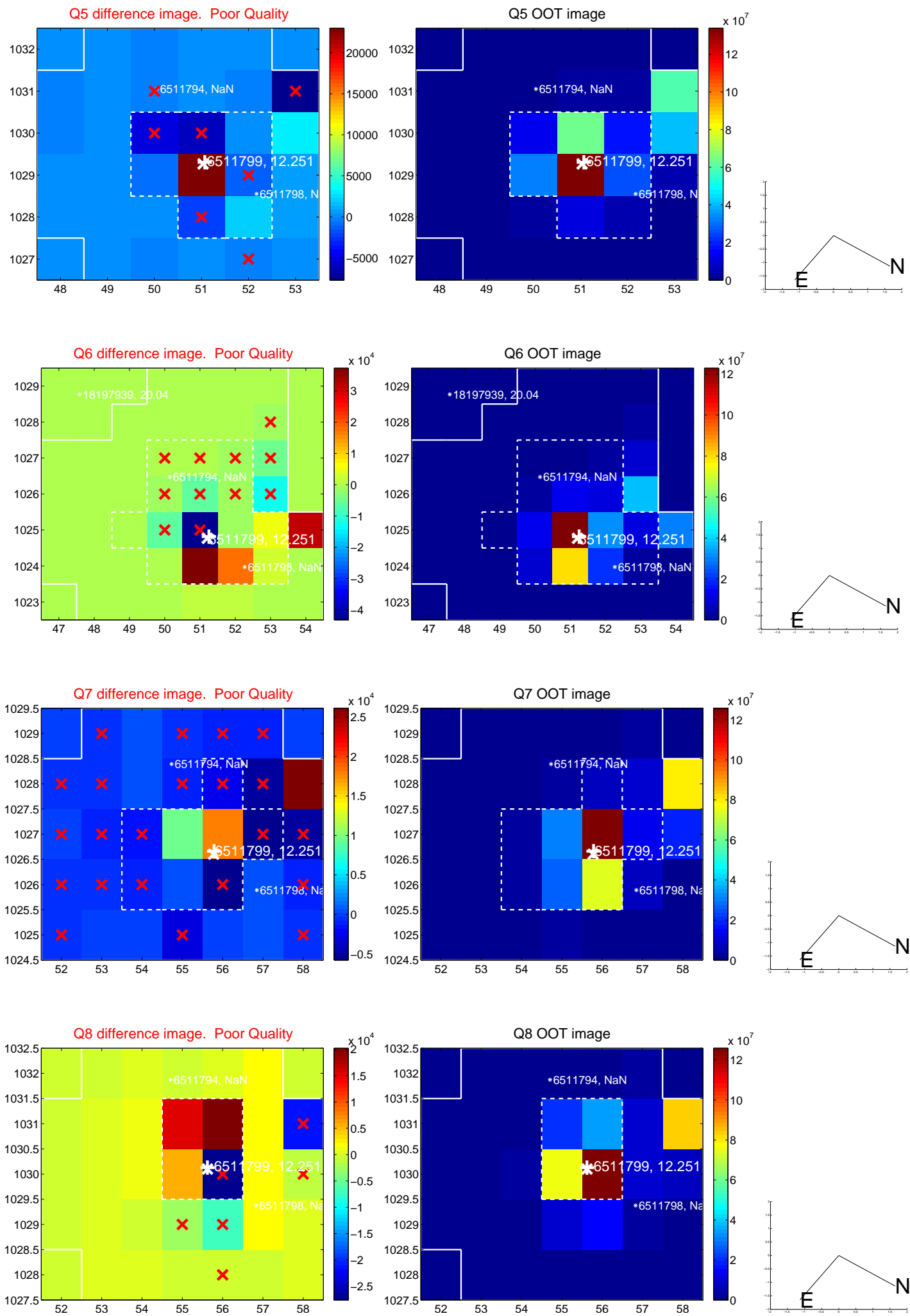


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

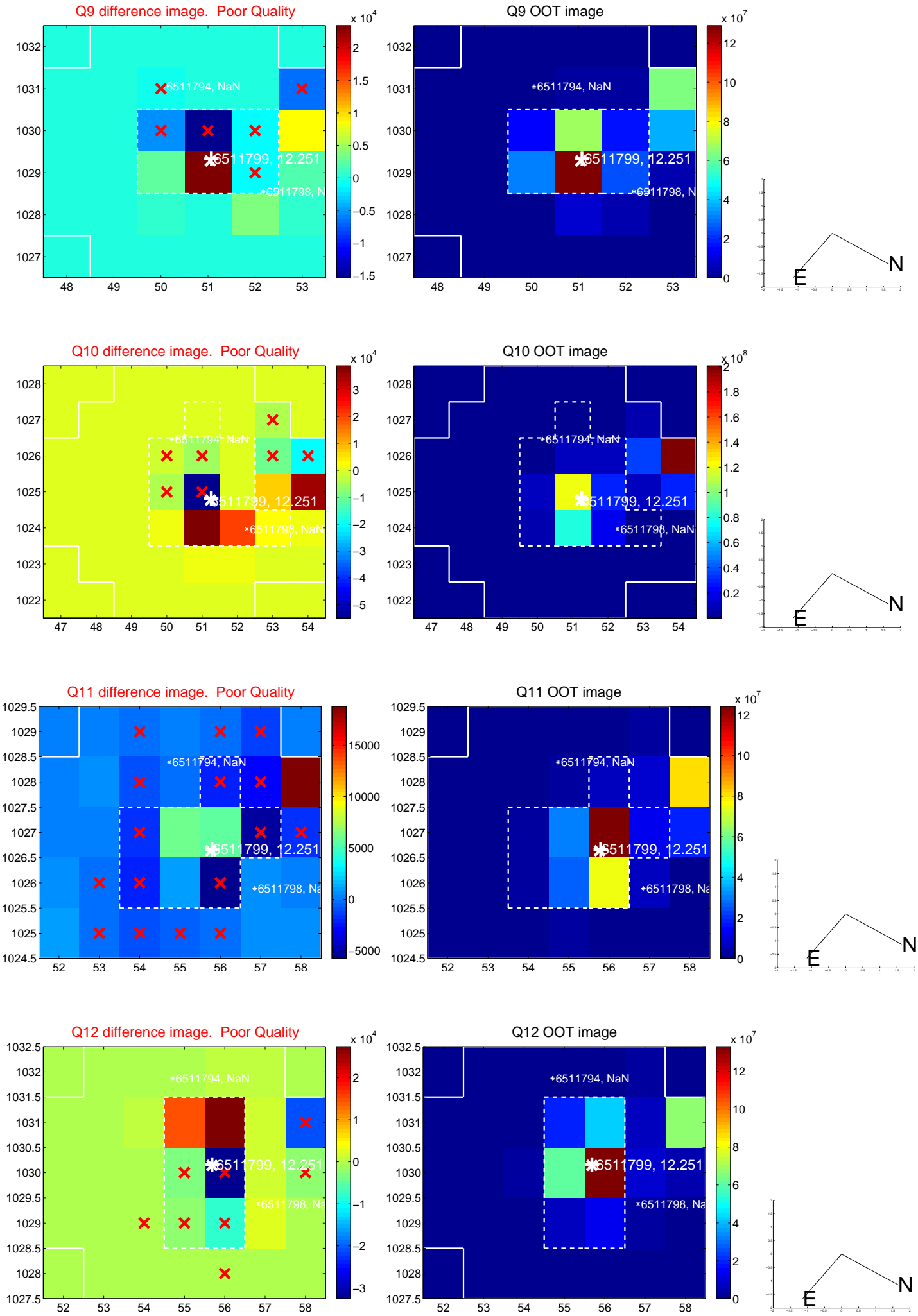
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



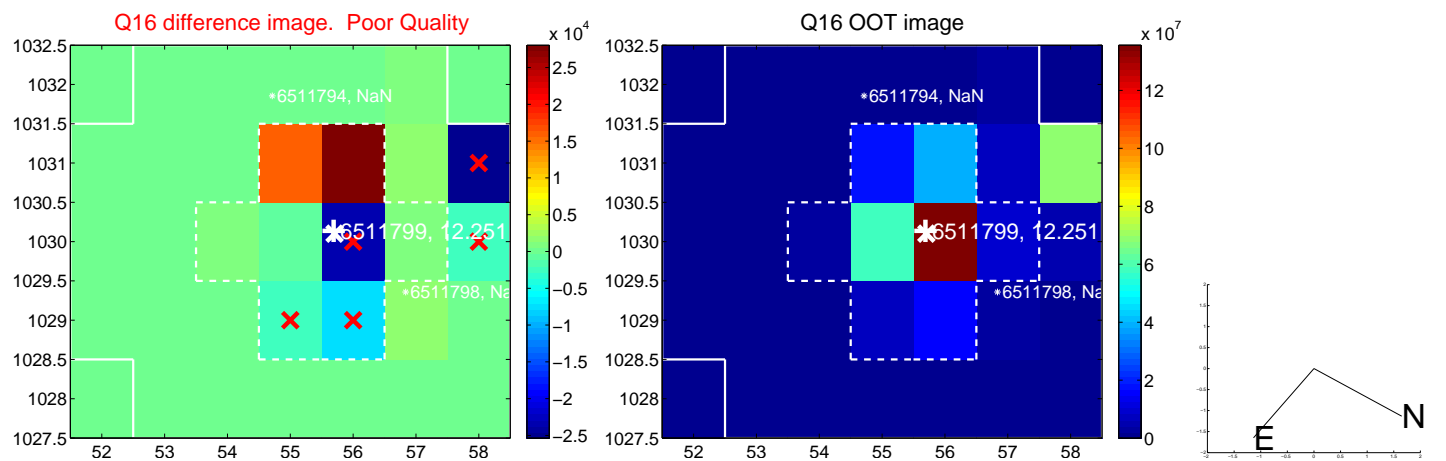
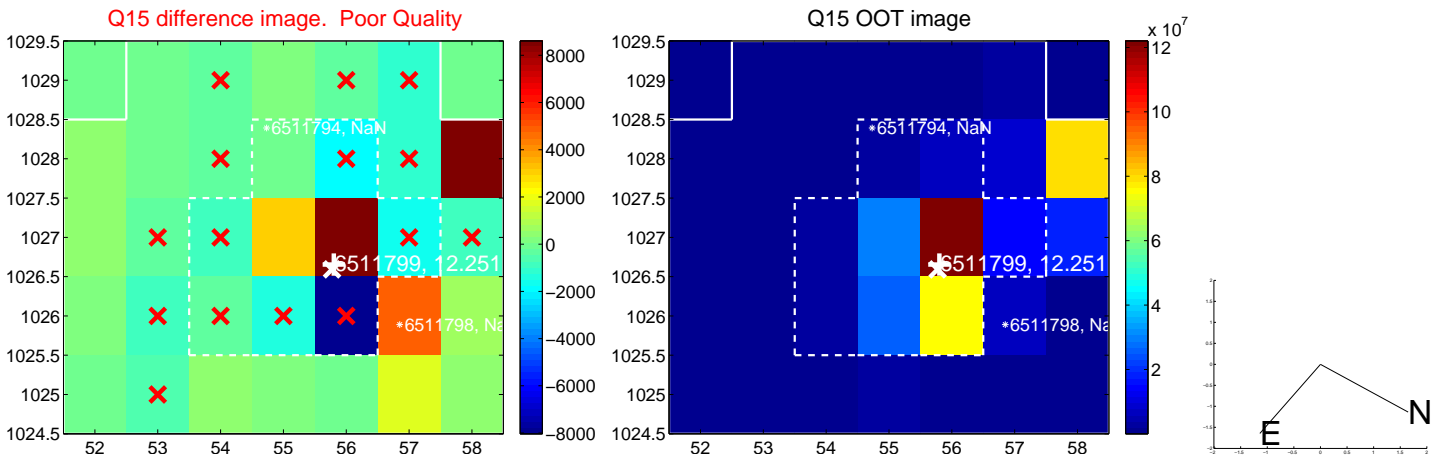
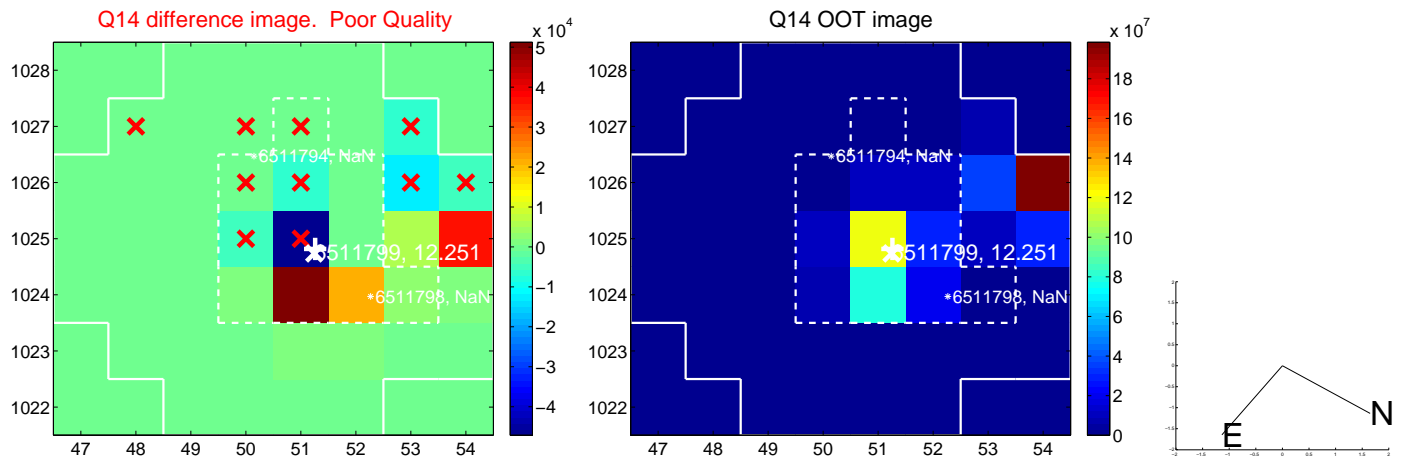
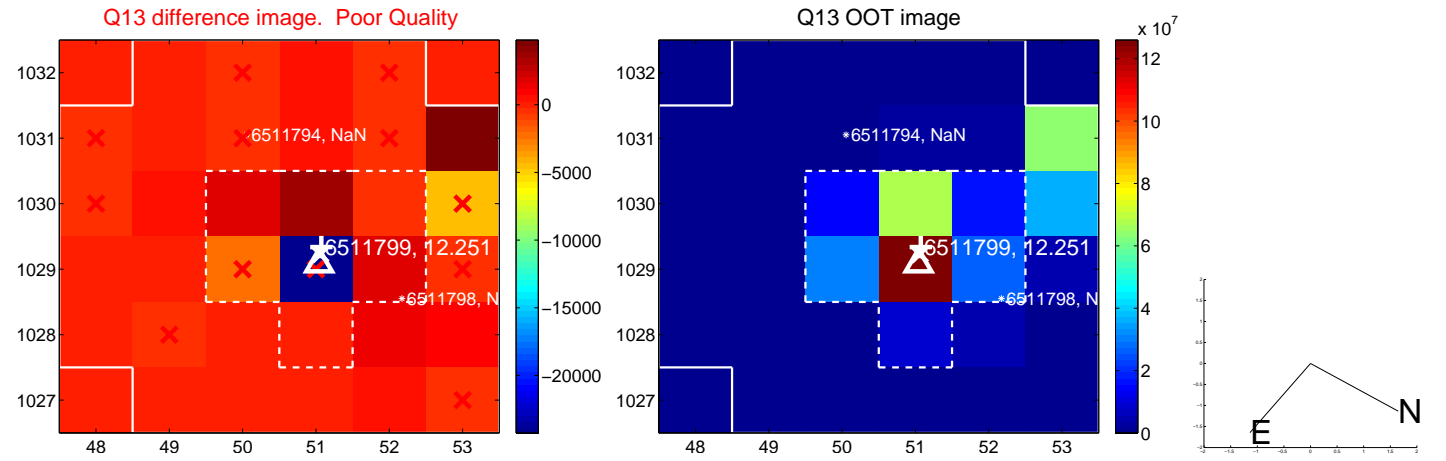
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



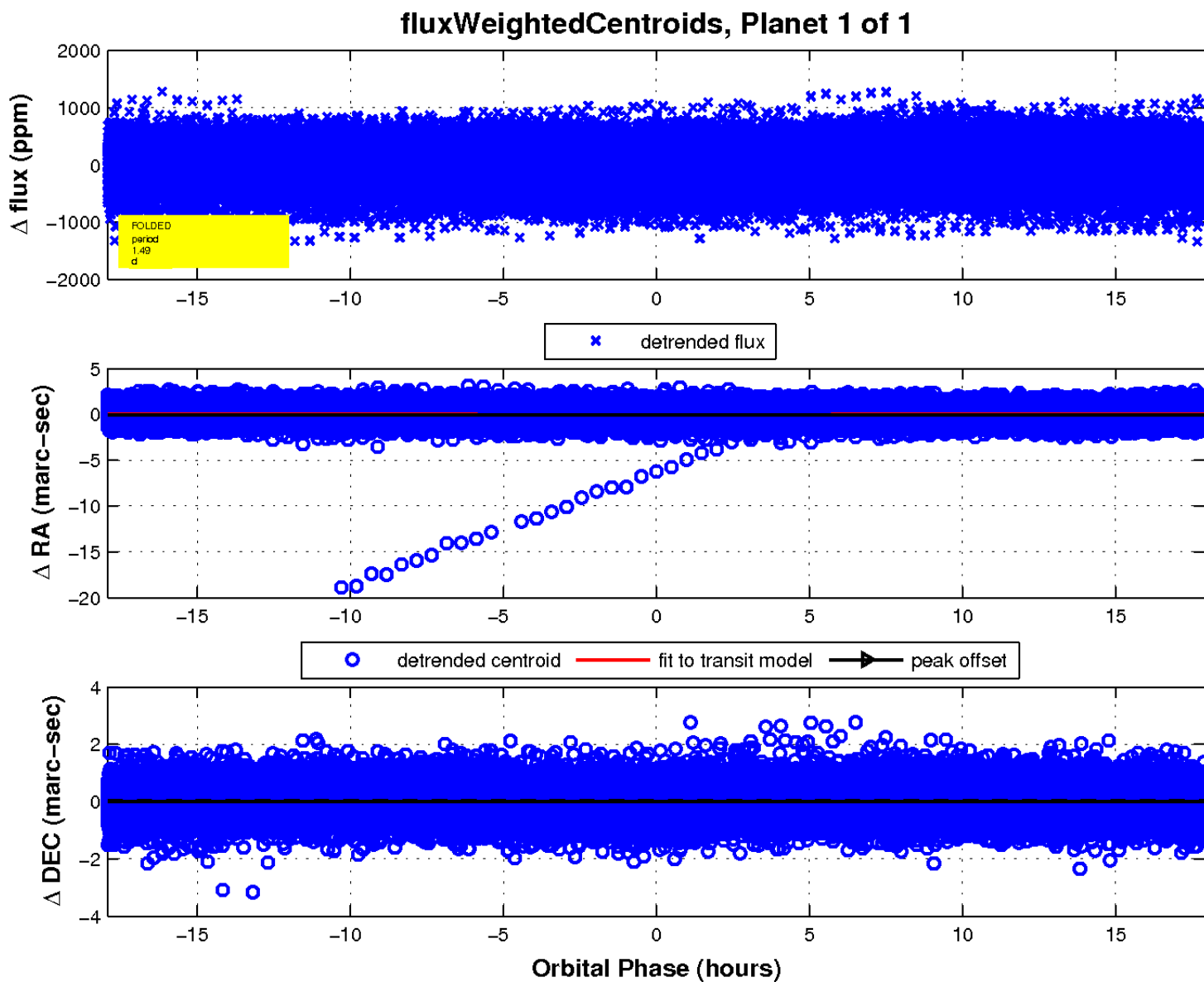
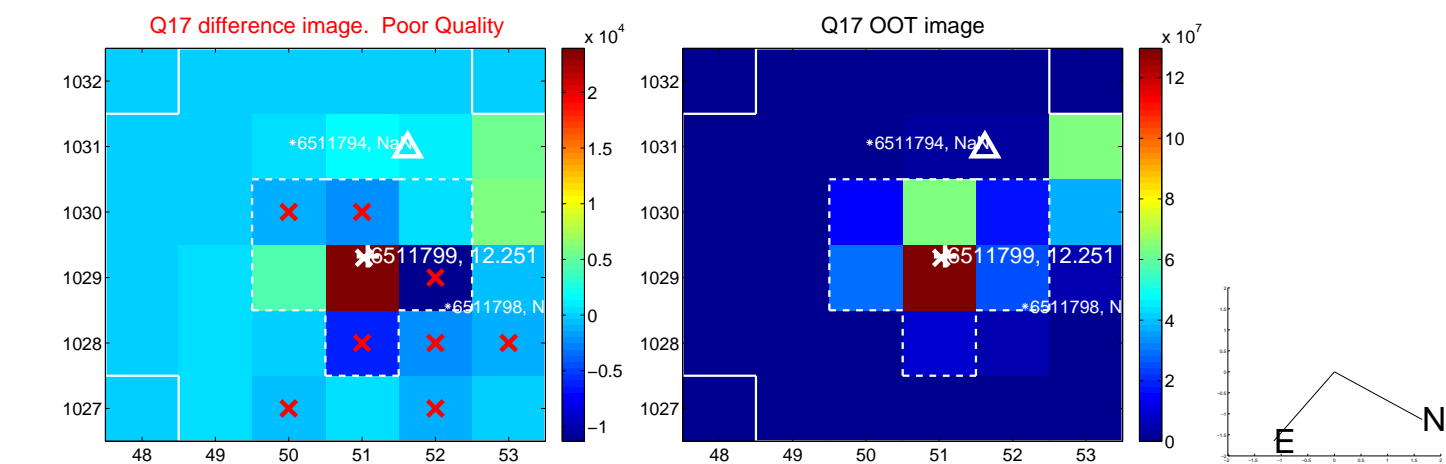
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

